The Tempe Way



MISSION:

To make Tempe the best place to live, work and play.

VALUES:

People... Integrity... Respect... Openness... Creativity... Quality...

CHEMIST I/II

Purpose:

To actively support and uphold the City's stated mission and values. To perform a wide variety of professional analytical and technical duties involved in the analyses of the City's water quality including raw and treated water and/or raw sewage and industrial waste; and to ensure proper compliance with Federal, State and local requirements.

Distinguishing Characteristics:

Chemist I

This is the entry level class in the Chemist series. This class is distinguished from the Chemist II by the performance of the more routine tasks and duties assigned to positions within the series. Since this class is typically used as a training class, employees may have only limited or no directly related work experience.

Chemist II

This is the full journey level class within the Chemist series. Employees within this class are distinguished from the Chemist I by the performance of the full range of duties as assigned including the most difficult water analysis and the development of testing procedures. Employees at this level receive only occasional instruction or assistance as new or unusual situations arise, and are fully aware of the operating procedures and policies of the work unit. Positions in this class are flexibly staffed and are normally filled by advancement form the I level, or when filled from the outside requires previous work experience.

Supervision Received and Exercised:

Chemist I

Receives general supervision from the Laboratory Administrator of from other supervisory or management staff.

Chemist II

Receives direction from the Laboratory Administrator or from other supervisory or management staff.

CITY OF TEMPE Chemist I/II (continued)

Exercise functional and technical supervision over lower level laboratory staff.

Examples of Duties:

This class specification is intended to indicate the basic nature of positions allocated to the class and examples of typical duties that may be assigned. It does not imply that all positions within the class perform all of the duties listed, nor does it necessarily list all possible duties that may be assigned.

Duties may include, but are not limited to, the following:

- Perform a variety of chemical, biochemical and bacteriological tests on samples taken from water main, water plant, canal, and residential systems.
- Perform trace metal analysis in potable water, wastewater and industrial effluent by AA
 flame, furnace and ICP; perform associated quality control checks to ensure the
 accuracy of analytical results; maintain records of analytical results.
- Calibrate, maintain and monitor various instruments to ensure standardized chemical solutions and filtrants; document accuracy of analytical data.
- Operate a variety of laboratory equipment including spectrophotometer, pH meters, specific ion equipment, gas chromatographs, atomic absorption, balances, furnaces, autoclaves, titrator, incubators, calculators, and computers.
- Prepare solutions, reagents and standards for various chemical analysis; develop complex testing procedures.
- Calibrate, modify and monitor gas chromatograph including preparing samples for analysis; calibrate various instruments and meters and perform preventive maintenance instrument checks.
- Develop and implement taste and odor profile analysis.
- Monitor taste and odor component concentration in the canals and treatment plant; prepare water, wastewater and industrial effluent samples for analysis using various sample digestion techniques.
- Investigate water customer complaints making necessary analysis and taking corrective action when required.
- Maintain, clean, and care for laboratory equipment and material.

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Chemist I/II (continued)

• Prepare and maintain water quality control reports to maintain State and Federal certification; develop new methods to meet ongoing federal regulations; fine tune

analytical methods to detect lower levels of particulate substances.

• Provide technical assistance to water treatment Plant Operators and plant maintenance

staff.

• Prepare and generate reports on water quality related data; represent the City at water

agency meetings, manufacturer's conferences and at other professional meetings and

organizations.

• Perform related duties as assigned.

Experience and Training Guidelines:

Any combination of experience and training that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities

would be:

Experience:

Chemist I

One year of experience in public health, chemical or bacteriological analyses is desirable.

Chemist II

Two years of increasingly responsible experience in public health, chemical or

bacteriological analyses comparable to that of a Chemist I in the City of Tempe.

Training:

Chemist I

Equivalent to a Bachelor's degree from an accredited college or university with major

course work in chemistry, bacteriology, biology or a related field.

Chemist II

Equivalent to a Bachelor's degree from an accredited college or university with major

course work in chemistry, bacteriology, biology or a related field.

Licenses/Certifications:

Chemist I

Effective November 1988 Reviewed August 1995

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Chemist I/II (continued)

May require the possession of, or ability to obtain, an appropriate, valid Arizona driver's license.

Chemist II

May require the possession of, or ability to obtain, an appropriate, valid Arizona driver's license.

This position is included in the City's classified service, pursuant to City of Tempe Personnel Rules and Regulations, Rule 1, Section 104.

Job Code: 6421 / 6422

Salary Range: 28 / 32

Compensation Plan: P40 Regular / P40 Regular

FLSA: Exempt / Exempt